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# The ILLINOIS ENGINEER

ILLINOIS SOCIETY OF PROFESSIONAL ENGINEERS  
INCORPORATED

Affiliated with the National Society of Professional Engineers  
631 East Green Street  
Champaign, Illinois



VOLUME XXX, NO. 9

SUMMER ISSUE

SEPTEMBER, 1954

## Joliet Chapter Takes Part In Pageant

Prepared by G. S. WALKER, Chairman  
Public Relations and Publicity Committee

In connection with the recent Million Dollar Pageant of Progress which was held at the Joliet Memorial Stadium on Thursday, July 29, 1954 through Sunday, August 1, 1954, the Joliet Chapter of the Illinois Society of Professional Engineers were the guests of the Joliet Pageant of Progress, taking part in the opening day ceremonies.

Our President, Mr. W. Kenneth Waltz, most graciously entered his car in the parade which was held to announce the opening of the Pageant. Placards advertising the Joliet Chapter of the Illinois Society of Professional Engineers were placed on his car. Accompanying him were Vice President Leslie W. Keeler, Secretary Donald M. Parkis, Treasurer Lloyd C. Gilbert and Past President Fred H. Tittsworth.

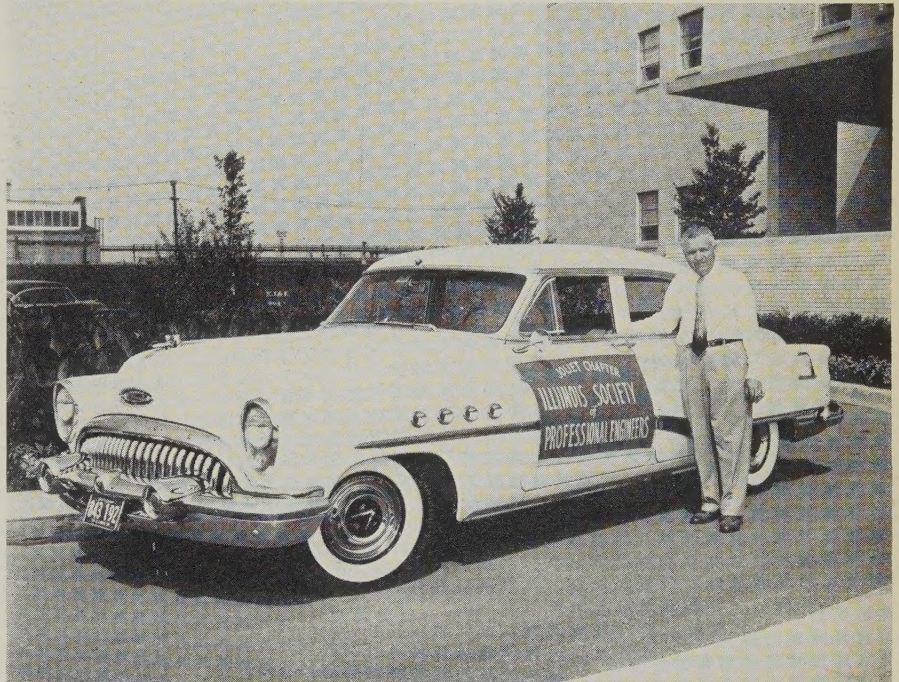
Above is a picture of President W. K. Waltz with his car showing the placards on display. The background of the placards were of purple using gold lettering, thereby following the colors of the Illinois Society of Professional Engineers. Photograph was taken by the Elgin, Joliet and Eastern Railway Company Milepost magazine photographer.

The Pageant was a big event in Joliet and was very well attended every day. The Committee and advertisers were well pleased, as this was the first time such a Pageant has been held here, and is now expected to be an annual affair.

### COST OF LIVING INDEX

The cost of living correction factor to be applied to the I.S.P.E. Schedule of Minimum Fees and Salaries is based upon the Consumer Price Index of the 1947-49 average as determined by the Bureau of Labor Statistics. On the 1947-49 base the correction factor for July, 1954, is 115.2.

For those who are still using the old schedule the correction factor is 192.2 based upon the 1935-39 average.



### ENGINEERING AND SCIENTIFIC MANPOWER COMMISSION REPORT

*The following information released by the Engineering Manpower Commission of Engineers' Joint Council and the Scientific Manpower Commission is of interest to all engineering employers and educators as well as to young engineers.*

#### Selective Service Advisory Boards Progress Report

Engineering and Scientific Manpower Commission announced the formation in six States of Selective Service Advisory Committees on Specialized Personnel to provide expert evaluation of occupational deferment requests as an aid to local boards in the classification of registrants for whom such requests are made. News-

#### SUBSCRIPTION RATES

\$2.00 per year in advance to members of the Illinois Society of Professional Engineers. \$4.00 per year in advance to non-members in U.S.A. and possessions, Canada, and Mexico. Foreign \$6.00. Single copies 40c. Published by the Illinois Society of Professional Engineers, Inc., 614 East Green Street, Champaign, Illinois.

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letter No. 54 published the official Selective Service Advice describing the purpose of the Committees.

It is, of course, much too early to make any analysis of the effectiveness of these Committees because none of them has had sufficient experience to warrant complete appraisal. We have watched, however, developments as they have emerged and have come to the conclusion that two aspects of the situation need immediate attention by employers.

1. It is of great importance that companies cooperate fully with the Advisory Committees and comply with the procedures they have thus far established. It should be kept in mind that this is an experiment of far-reaching implications, and that only through realistic approach, trial and error, can the experience necessary to an effective program be obtained.

2. Companies making occupational deferment requests should extend all possible effort toward providing the information needed by the Advisory Committees and Selective Service local boards. We are receiving an increasing number of reports from various sources to the effect that many occupational deferment requests simply do not contain sufficient information to permit proper consideration and classification. The formal criteria for occupational deferments have not been changed. Such criteria were discussed in an EMC Newsletter dated July 1, 1953, and it was strongly recommended that cases be prepared in accordance with the criteria stated, with all pertinent supporting material. Here they are again:

- (1) The registrant must be regularly employed, except for a seasonal or temporary interruption, and in an activity which is necessary to the maintenance of the national health, safety and interest;
- (2) The registrant cannot be replaced because of a shortage of persons with his qualifications or skill;
- (3) The removal of the registrant from the activity would cause a material loss of effectiveness in such activity.

In addition to the necessity of supplying information in connection with the requests for occupational deferment, employers may be asked to furnish personnel for Advisory Committees. All such invitations should be promptly complied with if at all possible.

It should be realized that in all plans now under consideration for the handling of specialized manpower problems, some provision is made for an administrative device similar to the Advisory Committees to provide expert evaluation of specialized personnel when same is needed. It is of the utmost importance, therefore, that these experimental Advisory Committees be given every opportunity to succeed.

This was pointed out by General Hershey in his Advice on the subject to State Directors. It is quoted in part as follows:

"Although this program is not being given trial in every State, it is believed that all State Directors will, neverthe-

less, recognize the important implications involved. In this connection it should be recognized that, although no apparent need for such Advisory Committees may exist at present, all aspects of the problem must be explored against a time of emergency when such a program may be necessary.

"The experience gained from this trial operation in the six selected States will serve as a guide in making a decision as to whether to establish such committees through the Selective Service System. It is, therefore, requested that each State Director avail himself of any opportunity to observe the program at work and report his reactions to this headquarters, marked for the attention of the Planning Officer."

It would indeed be a major breach of responsibility for those concerned to give these Committees anything less than complete cooperation.

#### —And Then the Colleges

Labeled "Urgent," a pamphlet just issued by the American Council on Education calls for "action to meet the impending increase in college and university enrollment." The college-age population will increase 16% by 1960, and in the 1960-70 decade will rise rapidly to 70%. "If," to quote Ronald B. Thompson of the Ohio State University, "we continue to admit into our colleges and universities an increasing percentage of our high school graduates, we shall enroll by 1970 at least twice our present number of students."

In a foreword, Arthur S. Adams points out that, under the sponsorship of the Office of Education, state and national conferences extending into 1955 will serve to focus attention on the more imminent needs of the primary and secondary schools, but that nothing comparable has been undertaken for higher education. The broader but more concrete phases of the problem are set forth by R. B. Thompson, and several questions of policy are presented in discussions by Francis Keppel (Harvard), C. J. Turck (Macalester), P. G. Davidson (Louisville), and J. W. Reynolds (Texas).

In a concluding article, A. S. Adams emphasizes the need for inspired and dedicated teachers and the no less urgent need for clear value judgments regarding the mission of higher education. Teachers, students, and public must be convinced of the importance of this mission, or the educational structure will topple for lack of public support — witness the recent refusal of one of the nation's largest municipal boards of education to retain \$1,400,000 in the budget for construction that would have enabled its municipal university to build in anticipation of the needs that the American Council on Education considers so urgent.

Copies of the pamphlet ("A Call for Action") can be obtained by addressing Manager of Publications, American Council on Education, at 1785 Massachusetts Ave., N.W., Washington 6, D. C.

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Worry is a thin stream of fear trickling through the mind. If encouraged, it cuts a channel into which all other thoughts are drained. — Arthur Somers Roche.



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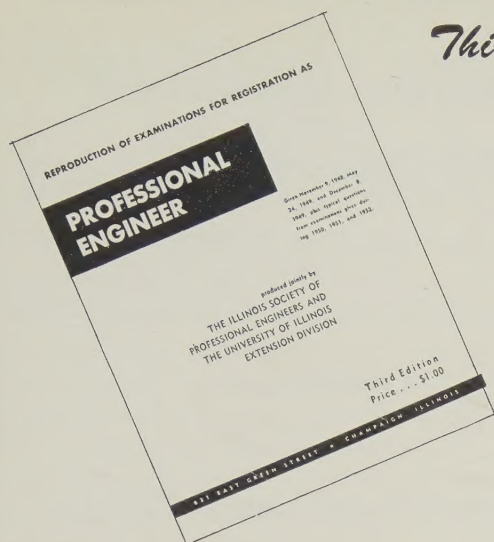
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**Obituary**

**G. H. Deuchler, Member N.S.P.E., I.S.P.E.**

Gustave Herman Deuchler, 58, who was Aurora's city engineer thru the terms of three mayors and part of a fourth, died at Copley Memorial Hospital, Joliet, July 21, 1954. He had been there for two weeks, returning after an April operation which disclosed an incurable ailment.

A naval aviation veteran of World War I, enlisting just before graduating from the University of Illinois, Mr. Deuchler worked for the engineering department of the Burlington railroad, leaving there to organize the Engineering Service Co., in 1920. This firm, which he headed until accepting the position of city engineer under the late Mayor Andrew Carter in 1941, did consulting municipal engineering in connection with sewers, sewage treatment plants, waterworks, street paving and bridges. It served many nearby communities, including Sandwich, Plano, North Aurora, Brookfield, Mendota, Sycamore, Lombard and Oswego, as well as the city of Aurora.

During his own term as city engineer, Gustave Deuchler was in charge of the repaving of many streets and arterial highways here, and at the time of his death had seen work start on the resurfacing of Ohio street, South Broadway and Highland avenue.

Mr. Deuchler was graduated in 1914 from West High, where he played end on the football team and developed into an excellent high jumper. He won a letter as a high jumper at the University of Illinois, and was a member of the I-Men's club.

He was a member of the First Baptist church, Aurora Elks lodge 705, the Masonic Order, the American Legion and the DuKane chapters of the National Society of Professional Engineers and the Illinois Society of Professional Engineers.

He leaves his widow, Mrs. Dorothy Deuchler of Aurora; a son, Robert, of Grand Rapids, Mich.; two grand-

sons, Robert and Thomas; one sister, Mrs. C. A. Wade, and one brother, Walter Deuchler of Aurora.

The Society notes with regret the death of its friend and Member.

### ROCKFORD AND ROCK RIVER CHAPTERS HOLD ANNUAL PICNIC

The annual picnic of the Rockford and Rock River Chapters of the Illinois Society of Professional Engineers was held at the Oregon, Illinois Country Club, July 24th. The day-long stag started off with ardent golfers arriving on the scene about 8 A.M. and taking off on their trek in and out of the woods over the nine hole course. By about noon 185 golfers had registered for the game and were either out chasing the sometimes evasive little white ball around or were waiting to do so. The day was ideal and one to be well remembered especially by the small ragged, dirty-faced little boys who quite regularly appeared out of the woods to sell golf balls to those still interested in such matters.

The non-golfers in attendance found the clubhouse an excellent place to play cards or to take it easy and just wait for the food to appear. The writer feels that it is quite fortunate that the club house didn't have ears to hear or a tongue to repeat the tall ones that changed hands that day.

In all about 250 members and friends were present to enjoy, among other things, the excellent luncheon served from 11 A.M. to 3 P.M. and the buffet style dinner served at 7 P.M.

After dinner "Bill" Howard, microphone in hand, proceeded to give out the prizes to golfers who had taken the game seriously. First place was tied with two scores of 35 for nine holes. Second place honors were taken by four golfers with scores of 36 each. One gentleman, and he must have been a gentleman, turned in a score of 133 for nine holes. He won a prize too and he deserved it after being in and out of the woods long enough to run



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up a score like that. Door prizes also came in for their share of the spotlight and about a dozen lucky ticket holders came away feeling that they indeed had had a wonderful day.

To those men who have carried the burden of planning and directing this most successful event we extend our thanks.

I hold every man a debtor to his profession; from the which as men of course do seek to receive countenance and profit, so ought they of duty to endeavor themselves by way of amends to be a help and ornament thereunto.

Sir Francis Bacon



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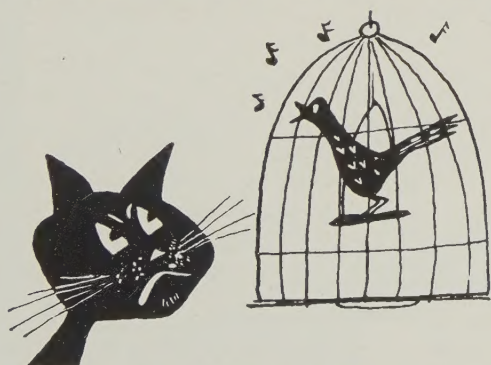
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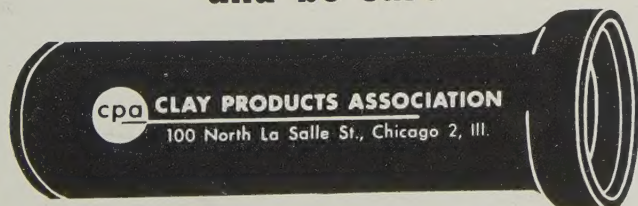
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### OVER THE MANAGER'S DESK

Labor Day is the end of vacation periods, tumbling weeds, and the first smell of burning leaves. THAT is September. Are you going to be like the tumbling weed and allow your plans for expanding your engineering department to be blown to the four winds, or are you going to realize that vacations are over and we all have a good work period ahead of us? Now is the time to contact our office for that particular engineer you are looking for.

If you are an engineer who has now seen the smoke from your leaves of experience beginning to shape up into definite progress, maybe you should realize that vacation is over and you should contact us to help you better yourself.

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**Ind. Mgmt. Engr.** M.E. 29. Twenty-five mos. expedite and inspect material purchased. One yr. timestudy, methods, plant layout, job classification and general mgmt. duties. Chicago. \$450. 957-PE

**Estimator.** M.E. 36. Eight yrs. estimating and design of heating and processing equipment. One yr. charge of mech. installation. \$8400. West. 958-PE

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**Ceramic Engineer.** 5 plus yrs. exp. in glazed tile or terra cotta laboratory or research work. Knowledge of glaze controls. Duties: in laboratory making tests of various glazes, raw materials, and supervising control of tunnel kiln operations. For a terra cotta manufacturer. Salary: \$6000-\$7000. Employer will negotiate fee. Location: Chicago. C-2076

**Chemical Engineer.** Chem. or Chem. Eng. Age: up to 50. 3-5 yrs. exp. in research and development of foam rubber (latex or other products). Knowledge of synthetics helpful. Duties: research and development work in foam rubber and similar products. For a manufacturer of rubber. Salary: \$8000. Employer will negotiate fee. Location: West Coast. C-2077

**Product Sales Manager — Steel.** Age: 30-40. 5 plus yrs. exp. in sales of steel stampings or fabrications on contract basis. At least 2 yrs. sales supervisory background. Duties: supervising contract sales of steel stampings to automotive and appliance mfgs. Also steel cabinets, jet engine components, basic wheels, mufflers and fuel tanks sold to defense industries. For a manufacturer of steel products. Sal.: \$8,000 to \$10,000. Location: Ohio. C-2079

**Sales Engineer.** Grad. Eng. Age: 30-35. Exp. in sales organization of mfg. heating, ventilating, air conditioning or allied equipment. Duties: technical selling of heating, ventilating, refrigeration, air conditioning, and heat transfer products. Sales accounts include consulting engineers, architects, contractors, jobbers and industrials. Sales offices from which calls are made on accounts in areas are located in 84 cities thruout U.S. For Mfg. & sales of heat. vent. Air and heat transfer. Salary: Open. — Comm. Basis. Traveling. Car required. C-2080(a)

**Asst. to Sales Manager.** Aircraft Sect. Heat Transfer Dept. Grad. Engr. Age: 25-30. Familiar with aircraft systems and components of systems; knowledge of same. Duties: assist in planning sales programs presenting new ideas for products development and improvement and offering specialized product knowledge and sales assistance to field sales offices. Product worked with is light weight heat transf. surfaces for use in aircraft mfg. and sales htg. vent. Air cond. and heat transfer. Salary: Open. Traveling. Car not required. Location: Wisconsin. C-2080(b)

**Asst. to Serv. Mgr.** Grad. Engr. Age: 25-35. In air conditioning and refrigeration industry. Knowledge of and interest in managerial resp. Duties: assist service manager in handling service problems and organizing a parts and service program. For mfg. & sales of heat vent. air cond. & heat transfer. Salary: Open. Traveling. Car not required. Location: Wisconsin. C-2080(d)

**Sales Engrg. Trainee.** Engrg. degree. Age: 25-29. Must have been honor student and have definite sales aptitude. Knowledge of industrial machinery. Duties: sell complete lubricating program to industrials covering full line of petroleum products. Deal with top management for most part. With major oil company. Training position. Salary: \$400-\$450 per month. Employer will negotiate fee. Location: Chicago. C-2095